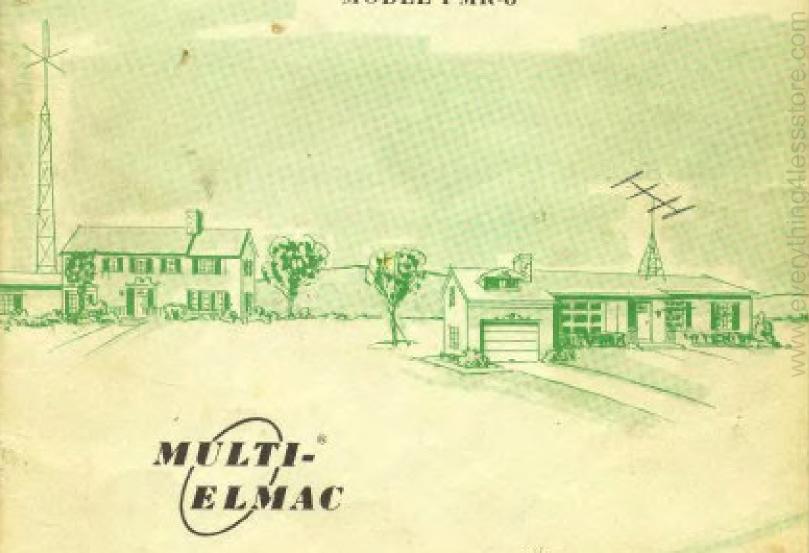
INSTRUCTION BOOK
and
OPERATING MANUAL

Amateur Receiver

MODEL PMR-8



MULTI-PRODUCTS COMPANY

www.everything4lessstore.com

MULTI-PRODUCTS COMPANY



MULTI-ELMAC

RADIO COMMUNICATIONS AND CONTROL EQUIPMENT

PMR-8 SPECIFICATIONS

SENSITIVITY:

.5 microvolt or better on the high-frequency bonds and 2 microvolts or better on the broadcast band for a 10 D8 signal to sales ratio.

SELECTIVITY:

å DB down at ± 3 Kc. å0 DB down at ± 15 Kc.

AUDIO OUTPUT:

Less than 10% distortion at 1 watt output.

NOISE LIMITER-

Automotic series gate type,

21470 COOLIDGE HIGHWAY

OAK PARK 37, MICH.

TORRESO, DM-188

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Fig. 1	Hank Diagram (ILLUSTRATIONS) and OLRORANS
Marie San	

Cleorit Diagram of PMS 6 Secritor

FM: 1

SECTION 1

DESCRIPTION

- 1.1 OBNIBAL. The BULTE-BURKE PMD-6 TABLE RECEIVED is a stan take take copies appropriate super-betweepes covering the 68, 48, 55, 55, 50, and a victor assessor bends, plus the standard benedical benediction of the standard benedical benediction of the standard benediction of the standard benediction of the standard benediction of the standard standard standard benediction of the standard standard standard standard of the standard standar
- 1.2 DWHMBONS. The continuous external dimensions of the TME-fivectives, tacketing the central leades are height, a 6/8", width, 1", and depth, 10". The cepts behind the panel to 9 t/8", The set weight of the receiver is 8 1/2 people.
- 1.2 CHCUIT DESCRIPTION. The ctrcuit consists of one stage of radio-frequency empirication, a first witter and subdition conflictor. Tuning, with accorded tracing, is accomplished with a three-gang constance. The sugar frequency of the first mater is 22% to and to benefit over respict to the second culture and crystal controlled conflictor combined to one take. The origin frequency of the second culture is 26% to, and is compled through fine based directly increasing wittp, angleticalise. A trible purpose take is used as the directory, stageyed A.V.C. and A.E.L. The first such another and best frequency conflictor are constituted to a fact purpose take. The first such is followed by a wave power amplifier supplying sufficient subput for speaker and beautylone approxime. A knot ingram is shown in figure 1.

In the design of the PMR-A, we extraording eigent to notes inside him been nonceptuted and in opporent by the presencent lack of budgeround noise when operated with the gain controls advanced to matricipal and this estimate of acceptated.

High receitivity and a good notes figure has been obtained by the use of a tagh gaps a.r. amplifier and symbols. R.F. cold design. The good notes figure is obtainable by designing the front and colds for applicants by and following colds for applicants by and following colds from the problem of the problem of a construction of a construct are determined in the R.F. colds, since in their cestignies resulted in an excellent eigenst by notes called and since figure. A something consideration in determining the notes figure of a restrictor is the notes fine of the last L.F. frequency. The rates present by an L.F. amplifier is proportional to the hardpoor of the langitude.

210 EU. Was consider the good set in the proportion and purposed of the hardpoor of the langitude.

The overall drift in the receiver has been high to a columns to the one of temperature compounding reperieurs to the inval outlister, refrage regulated place and followed supply and a country contraded seasond convertee confidence. Fight two-handon construction also added to the general, stability of the got.

Deleyed A.V.C. Is used to this receiver to provide tendents receivily with the use of A.V.C., to existency submitted Volume Confrol objects, inherent noise in the receiver will predominate to make the produce and predominate voltage. This bias voltage which applied to the amplificate will reduce the sensitivity of a receiver. A system employing delayed A.V.C. provides that bias incontents applied to the amplificate will be imputingful to in second of 8 voltage the A.V.C. provides these.

The B.F.D. is the prooffer injects energy too the Std kn. L.F. amplifier. Minteres coupling to wood between the text-oscillator and L.F. amplifier for maximum building between the text-ologies. The B.F.D. central is marked USD, upper additional, and L.F. invite stabilizated, believing which side the least overlighter is placed on the L.F. band-pass. A frequency deviation of place 2 to, to minus 2 to the stabilization by rotation of the coupled. Optimum DW and Std pudoplies to additionable with the excellent problems approximately half-way between zero and place or now and minus depending on the excellent desired. Show grintless of the B.F.D. control will give a variate office in landing in C.W and SMR stabilization.

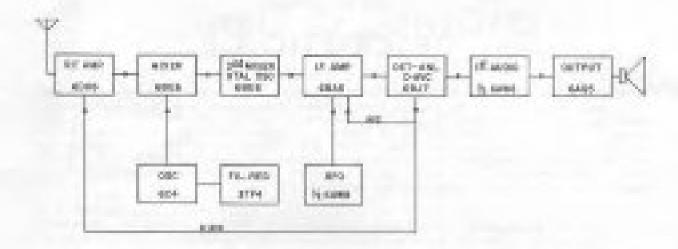


FIGURE 1. WHILE BLOCK DIAGRAM

1.4 TUBE COMPLEMENT,	The PSSR-5 is supplied complete with all index leated in the receiver at	Sec.
Here of a lighterness. The	title: Sypon erre an dollows:	

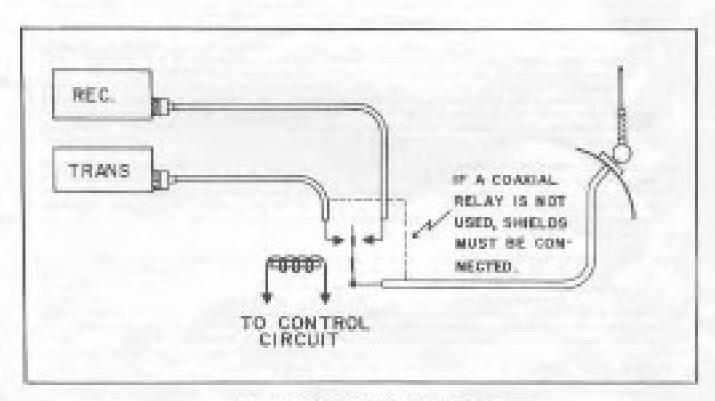
N.F. Septition	
First Misse	
H.Z. Oscillator	
Second interested Chydan Chestane	
Necedity, Applifier	
381 A.V.D., A.S.A	
First Ratto and B.F.D	
And in Cultural	
Pflysons Hopkidor	

1.5 Turning System a stree-gasy toning especial and 21 age-2 cuts are used to once the T separate basis solected by a page switch, as follows:

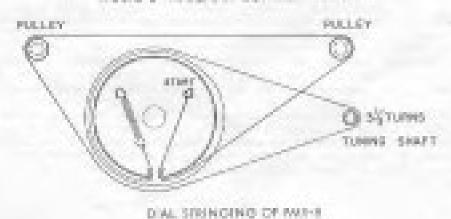
4 METER BAND	(0.1 to \$1.0 . Str.
30 METER BOND	45.4 to 45.7 Miles
15 METER BAND	32.8 to 21.40 340
NO METER DAND	14.1 to 14.10 16:
40 METER BASD	7.8 to 108 3to
NO METER BAND	
BROADCAST BAND	

- 1.6 ANTENNA INPUT. The receiver is designed for one with a resonant insteads coupled to the receiver liquid with a transportance time of 60 to 73 shows impairment. Detailed fortaining recommendations are confident in prooperate. 3.5.
- 1.7 AUDIC OUTFUT. As subject transferror matching the output this to a possible of suggest dynamic spector having a velop out impedance of f.2 obserts to be included on the receiver obserte. The speaker touch the window of the power play on the receiver obserts. Also included as the power of the receiver obserts in a lessiphere (set that discious the speaker when the harmonises are to use.)

- 1.5 POWER SUPELY AND ACCESSORY. The following power augsty is synthetic for one with the MULTI-ELMAC TMR-9 receiver.
 - SEOTO A universal 6 or 15 vail 30 and 130 reliably power supply. (Neptlers fill ment vidings, one low voltage papalated source and two separate high voltages.)
 - SHOTE. Show on MINTE Call well, in his Kerne.
 - Note: Due to different requirements, for individual installations, on colde for the MICON [MINTE] power signify in annihilation than the focusty.
 - 1989-3. The 1989-3 to a C took 100' mater manufact it a metal lock with his for mobile on fixed operation. It is supplied with a cable had may be attached to the receivers' power connection as indicated to figure 1.
 - AS-1. A 4 fuch apostor monated to a metal environme with varyworsh monetag totaket and exceeding male.



HIGHE 2. ANTENNA CONTROL CHOUT



SECTION 2

INSTALLATION AND OPERATION

- 2.1 OFMERAL COMMISSIONS. Notwo installations being allow, the swear of a. MELLY-REMAC PMp-6 receiver will carry his installation according to the open dentishin, and the fashsides' operator's desires in regard to specialist seasonable of these suristices, whenever the receiver is installed in a rotatio, there are those constitute to a proper installation; the Convenient founties for returning, and go obstitution of trate write. The constant experienced is toolike multi-west will have his own professions. It is regarded less before testilistics is began, the owner rest the very thorough treatment gives to receive installations in the past Laures of QST and UG contractions.
- 2.2 ACCUPATIVE METHODS. The light weight of the PMR-I makes 2 readily atapishts to a tanging watch from the lower edge of the dissible and. A larget of alomatem angle stock from the rear somer of the receiver calibet to the fire wall of the solicie will complete a simple but rigid moint. If the faithful wishes to speed the extra time and money and the our dustators the sufficient space, a very sent initialization can be effected by residing the preser out-out into the instrument usual and recenting the receiver fiest. This method is solicits where the panel contains a removable containing the receiver that we be replaced. If the reaction is removed, then surrounds there existing the surplied which was be replaced. If the reaction is removed, then surround bracket that could be surplied.
- 3.3 ANTENNA. The MULTI-ELMAC PMIc-8 receiver will perform most efficiently when it is coupled to an asternal resonant on the frequency band to which the receiver is tuned. As in the operation of a fewel evolution state, this condition is most easily obtained by using the same automation both transmitting and receiving. A strange-over many operated by the particular with a number containing to required, and may be installed between the receiver and transmitter with a number contain line to the external. See Figure 2 for a topical circuit.
- 2.4 PONNE SUPPLY. The MULTI-SLENAC DMR-6 reseaser requires a filament veltage of 8.8 or 12.8 wills at 8.8 or 1.8 trapered respectively, and a "E" apply soliage of 150 wits at 70 Ma. and 305 volts regulated at 10 Ma. This latter voltage may be derived from the 250 rolt supply. The power wayshy may be located anywhere in the retricts providing the hot land teither 6 or 12 volts; is heavy enough to furnish the accessory current without under voltage drop. More more than one the mounting botts, a bover supply is efficiently grounded to the car both. Ethis counce be done with the mounting botts, a bover depoty is efficiently grounded to the car both. Ethis counce be done with the mounting botts, a bover depoty and size of the power weather and size of the power weather and size of the power weather the botts) to the fire will officer in the care or purply the boot.
 - Note: All PMR-S received are shipped from the factory wired for 12 well filament operation.
 A type STFN tobe is used to regulate the filament solings of the SCs, first oscillator, on 12 well operation only. If 6 well-operation is sometimed, it will be received by the consensury to consent a wire between pix 6 and 8 of the 1774 sector and rewire torontails 1, 2, and 2 of the power play office connector as outlined in figure 6.
- 2.3 "5" ARTER. Provision has been made for the attachment of an excessed "9" meter (556-5) giving relative signs) strongth restings. This meter is available to the form of a bit that our be mounted in more convenient place to the related and connected to the power plag or indicated in figure 5.
- 2.6 CONTROL CREDITS. While this minuted show not believe writte the scope general instructions on reserved species for mobile testabilistics, if he important for the ever of the PMIC-6 receiver to employ scottrol sircular that will jet protect the receiver from N.P. prostant by destring it during periods of transmission. (In make the transmister testaging insperietry when the sound-receive switch in reference, and jet schedule a manufacture commany of bectuary great.

2.7 CONTROL PUNCTIONS.

- A.F. GAIS Sotate scatted electorate to turn power on. Control adjusts statio lovel delegancontrol to approximately two-Manus galla for MBB and CW reception.
- 3.F. GAB Setate control clockwise to increase amplification of the R.F. stage. Assume R.F. gain control to maximum softing for full A.F.C. solice. the R.F. gain on volume control when receiving UW and SSS.
- BASID Botale method to the destroit bacd as indicated on the panel. One the expressional security on the heavy cital.
- AFT Sold and extend control in eliber direction for months as again, page up to the 4-grand name.
- SES-CW Setton in upper position turns on the best-frequency consists; for the reception of AM CW and SSS signals.
- ASC. Sirtick to appear presiston terms on the Astennatic Stries Limiter.
- BFO Adjusts despessey of the best speciator, flotation of the scatted allows recapting or appear or lower nateriored as indicated as the gaze).
- TUMBES Southed in either direction to tune bytes destruct eigenf. Prespector in testicated directly in respective on the discussion.
- 2.6 VEHICULAR NODE SUPPLISHED, The proper adjustice is a rankly installation of a good configurabilities received such as the MULTI-ELMAC PRESS is possible only when voluntar sides has been effectively always and a responsibility of the property of the supplied of a relative size of their source. Next other solves of local origin can be suppressed, thing temperature will be furnished to their source. Here official point suppression has been displayed, 2 will be found that the substantial rates Bestor both into the MULTI-ELMAC PRESS reconstructed solves all had the word. Dates palees in a local which will not interfer with substantony rates communication. It is particularly reconstructed that the following noise suppression be also explained.
 - (1) This is eligible of sports olige containing builts in 10,000 obtaining page suppressions or 20,800 obtaining builts in 10,000 obtaining page suppressions reputation to carcinology.
 - (F) The hadadatase of a ,1 wid country expected is surious with the hartery lead to the against soil. This should be wounted as whose as possible to the notification terranal, and a good ground made to the expected case.
 - (ii) The includation of a [1] cold country expendent to the "host" lead coming out of the solution greateston arrestance, replacing the normal informative unit. The capacitor should be correhably provided to the greatest frames. All pointings gain absult be decided off with simply pre-
 - Fit The invisible of a 2 mil course apportune between the fathery terretard of the college regulation and ground, with the copacitor owns well grounded as belone. The invitable of a 2002 will more expection to series with a four \$4 size outdoor resistant from the field invested of the well-up regulator to ground.
 - (ii) Headout series remaining after the above precisitions have been taken out by incuted by the precise of elimination, in certain reduce of entomobiles, the various panel is directed to extend to be contained to the interference of radio frequencies which can be abundanted with appropriate op-pass output the free the "bot" side of the offending instrument to ground.

SECTION 3

SERVICE AND ALIGNMENT

- 3.1 GENERAL. Substances operation of this receiver depends on several entered between theorems in the product of the production of the entered depends on several entered interest attentions, proved subles and pages, the nicrospo bettery and connections (if a retrieval attention), and the A.C. proved source all operated in a fixed incretion, and the speaker connections, if is an appropriately where or there and effort in preserve and attention to service a receiver when the trouble is an external sea.
 - by ANTERNA. If the receiver has its sormal being loved, but signals are very most, too for a broken statem. Send close to the receiver, or for an open or inopensitie autumn your
 - By EARLIES AND PLUCE, The initial installation stands todate all native and plage whose typy will see its exposed to physical shock at subjected to betating and heating
 - It I FUSES. Clock force with an opposite of a good how has no approximate restingues.
- 2.2 TURCS. Even though modern medical of predication are producing more reliable tries than ever, the first source of trouble as most itself to be a delective rate. Date follow will produce week algorithm storroublest operation, actor, are completely dead receiver. When absolving labor, mark them as they are noticed from the receiver or that they may be retained to their original acctors. Where a labor thinged in any strough that strengt about the re-nigned for peak performance as cultical in the receiver as also received as a subject to a significant.

Now takes about the tapped state operating to check for sucreptonics, which will subsuperation of a modula recoiver.

- 3.3 CHOUIT FAILURE. Recruiting taken, the ment common source of circuit folices will invariantly be found in the distance of common and expections within the recoiner. A defective consistence or expection can consider the consideration of the constance of common will offer when the defective part, mean as observed restainers. Figure 6 is an operating voltage and restainment of an expectation part, mean as observed restainers. Figure 6 is an operating voltage and restainment of an expectation part and operating observed. The check should be based on the first and treatment of 24,000 check pay tok constitutions of a vortage with voltage of the mean of the relating of the check should be the constitution of the relating of the same operation. The check should be based on the constitution of the relating of the check of an expectation of the check should be constituted as the constitution of the relating of the check o
- 3.4 GENERAL ALIGNMENT INSTRUCTIONS. Thoroughly familiaring spaces of six of the crite as shown in Figures 3 and 4 before beginning alignment. All of the cells are increased including the R.F. and I.F. soils with one exception. The broadlast assumance cell is because endor the chartely head the freed of the conceptor as can be seen in Figures 2 and 4.

Obselve the distribution and the printer to be certain that there is sufficient became on the cord, and that the pointer rides from of all obstructions. Refers alignment, be more yes have an accurate eigent production. If at all possible, expectable that hall made the alignment frequencies specified are grafured for maximum, accountry. The alignment of the receivar engagement is more assemble than the signal powerable with hidely it was aligned.

3.5 LP, AND S.F.O. ALIGNMENT. However the 604 oneillator tobe.

for the K.F. ging control as its full electrotes contrine.

- hel the B.F.O. Switch in the AM punties. Compact the signal presenter through a cert said water expection to the concept auction of the having expecting.
- Consect a research side restrictor from the A.A.C. Dute to ground. If a success tobe voltaneous is not invalidable, respect a 2 to 18 millionipore meter is series with the lead coming from pix 6 on the reserver power plug.
- With the eignal generator see at 1928 to, separt all of the LF, sings for maximum response. (It should be noted that maximum response by a relationary positing on the 0 to 18 millianuary motor.) There are two sings in T2, T3. T3, and T3 adjustable from the top or better of the channin. A special N'RI" has conventiver planeral Convert 68000; in accountry for the adjustment of all rests. Where adjusting the LF, solds for maximum response, care should be exercised to step the sulpsi from the signal generator for manage to prevent everload of the reserver. When the LF, singse have

toom aligned, set the B.F.O. switch to DW, RSB position and set the R.F.O. centrel to nero setting. Adjust the B.F.O. cell, TS, for nero best. B will be noted that it is not necessary to adjust the RSI to anylitary with SRS he compatition the signed governor. This is tree because the crystal seculiars— (2008 to.) decrease 200 to. sutments only from the 2200 to. signed, (2009-2200 equals RO).

Hostoca the MOLINGE

1.6 S. F. ALIGNAVINT. Refere the F.F. singulated to began the pointer smoothe positioned property to recipied to the chid. When the being expection is completely revolved princed) the pointer thinks be aligned with the edge of the black better at the left side of the shall have. If this is not discother coupled by an involved continuous the continuous and track property across the entire testing range.

And signal generally used to align this receiver must have a good attenuities. The output from the signal properties should be local low comply to primary the A,T,C, from operating.

The flasts was be aligned in any order, but for the make of this manual, we will start with and align the begats in order.

I METER BAND DO NO 10 DECIMENT

Nill the Arkinga telescop in the middle of the mage.

Set the Stratow Entroy Dec 8 SECTION SAND.

But the populater Otal to 68 A Mo...

Compact a eigent generator to the consider malacan just and set the generator to 30.00 Mil.

Adjust the 6 Notes oscillator coll with the signal is been in properly.

Adjust the F Miller Anisems and and Describe real for manifestations object. Cleak the tracking at 20.0 Mo. and 22.0 Mo. If tracking is continuely off at these two prints the noting of the trianger 120-H will have to be obtained at the large major and the continues and readjusted at the law entire the heat. Neverth Schild between their images patting and the coff adjustment map be necessary to achieve proper tracking NOTEs. The contilator is on the law side of the signal.

18 METRIC BAND DRIE to BET NO. |

died that Audienas being see to the middle of the range.

Set the Beadwettel no to 30 MRTER BAND.

Self-this precidence Chief to 2010 Mrs.

Countries a signal grantestor to the receiver automas trait and not the grantestor to \$2.0 Mis.

Adjust the 10 Mater cardiffactor cold south the alignal is tuned in property.

Adjust the 50 Metry Automaticals and Conspeller and for manimum edgel.

Chiefe the tracking at 26.5 and 16.7 Me. If the tracking is off proceed as for 6 meters show using CFF-D and for 10 meter excitizator education at the eigent.

OF MICTER PARTY (SEE FOR \$1.43 Me).

Bol the Automa trimmer in the middle of the range.

set the Paryles link on the 12 METER BARD.

fol the receiver Disl and the signal generator to \$1.3 Mir.

Attent IS Note: oscillator coll soft the signal is tosed to preparly.

Adjust the 15 Networ Automos and Conventee codes for management output:

Check the tracking of 21.4 and 21.45 Me. Compart pay arrow is tracking by using tributer CSI-F and the 15 mater cucilizator code substances wing. NOTE: The avoid taken is on the law wide of the signal.

SO METER BUSD (14 A to 34 A Sk).

Set the Arkenn trimmer to the middle of its range.

Set the Sheet southle on The 20 METER BANCS.

Set the receiver Otal and the signal goscotop to 14.2 Mr.

Adjoint the 20 Mates contributes not worth the eligibilitie based to property.

Adjust the 30 Meter between and Convertee code for reastment output.

Check the specking at 14.0 and 31.5 Me. Correctney error in tracking using between CSS-A and the 30 meter conflictor and adjustment play. NOTE: The conflictor is so the high stdp of the nignal.

SO MINTER BAND P. CO. T.O MO.

hel the Antarox oriented to the solida of his range.

Sof the Boardewick so, the 48 MEYER RANGE

But the resistron that and the signal generator to 0.15 Mo.

All just the 40 Meter oscillator onli until the staged is tened to properly.

Adject the 40 Meter Automas and Convertor colls for tractions majori,

Check the tracking at 7.8 and 7.2 Mis. Conventury error is tracking by saving between CSS-Q and the 48 maker samillator cold adjustment stag. MOTE: The conditions is on the light sale of the signal.

OR METER RAND OLD IN A.S. MO. I.

Set the Astense between to where the plates are stood one quester meshed. The automa cost will not treat any other writing.

See the Dandswitch on the 86 METER BAND.

Sat The receiver Distinct the signal governments to 2.72 Me.

Actual the 6s States associated exclusion the signal is based as properly.

Acquest the 88 Eleter Antonna and Courastee and's for constituent output.

Check the trecking at 2.5 and 4.5 Mr. Correct any cover is rescain by using trianner 500-E and the 68 recor qualitator coll adjustment sing. NOTE: The sawithter is on the bigh wide of the edgast.

BROADCAST BASIS CAS IN LICENSE.

Not the Asterna bilionar to where the places are 30% numbed.

Set the Bardentich on the SECADOAST MAMO.

Set the receiver Dist and the eigent generator to 600 kc.

Adjust the breatcast oscillator and said the signal is triand in property.

Adjust the braidcast ownerest coll for madition output,

Bed the Agreems trimined to where the plates are 30% marked.

See the receiver Deal and algoral generality to tack too.

Address the knowledge Address and and constance (20 for treatment output.

Check the tracking at 600 and 1560 for. Carried any error to bracking by using traducer CER-II and the breakmen conflictor coll sing. SOTE: The neutliniar to on the high side of the eigent on this band and the conflictor frequency to relationly lago due to the high first assumed into frequency. The breakdown sentilator beam from 2.775 to 1.505 Mo.

2.7 "S" AETER ADJUSTAGENT, Remove automs and about topol yeak with a pione of hard wire. Adjust potentionades 10-1 well the "S" mater reads servender this zero signal condition. The "S" rector should read here when the received is harded off. Figure adjust to zero with panel sorwer adjustment on the factor. If a horseque concentry to regime the accord LF, amplifier take, a sareful relation of takes sense by our panels in the observable characteristics of the take will charge the something of the materials.

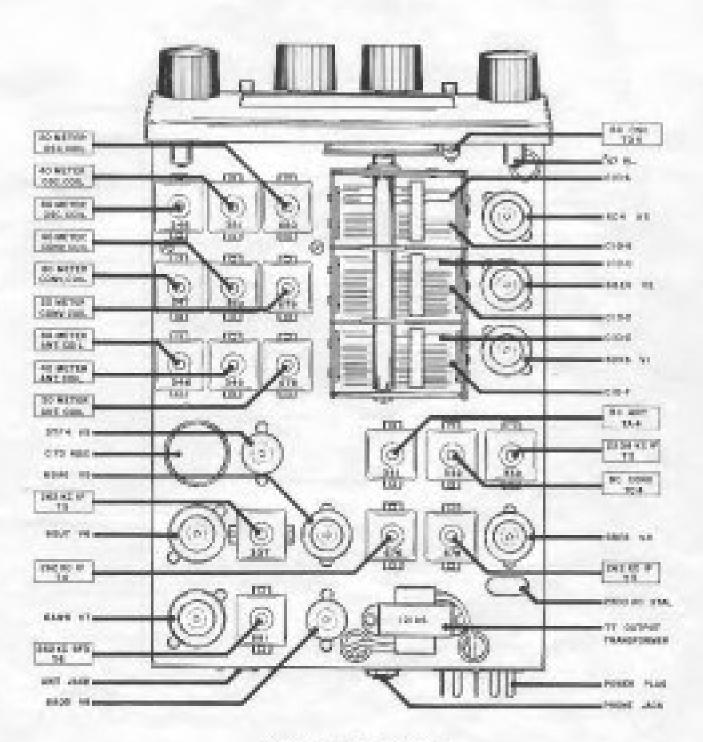
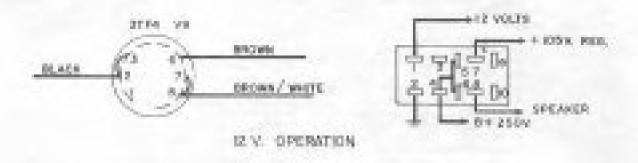


FIGURE 2 PARKS TOP VIEW



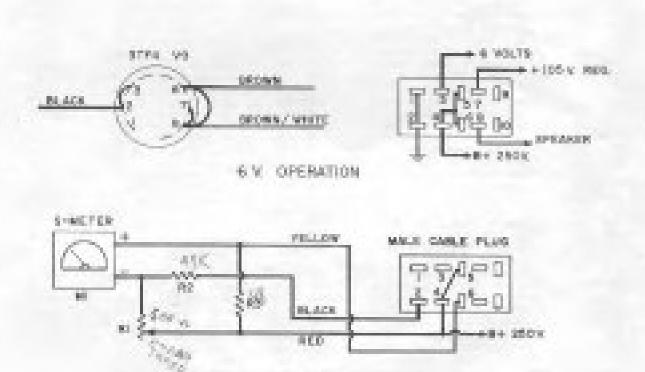


FIGURE 5: PHR-4 POWER CONNECTIONS

ACCESSORY.

135-5

	7903	Paris and		
STREET,	0.0	CHIPTIES		PARE NO.
\$105 to F	Cocyclete, fostor, varieties			- 100
CLL	Circustron, necessary, 50 marsh.			363-1
684	Capacities, Basil, dark contacts	3000 mild.		-000 A
519	Copyrition, David, dose personic	2005, 8056		
CHANGE TO THE	Deporter, Dook due common	ACC NO. (Sec.)		
C16	Dipattice, fixed, disc occurso	3000 mod-		
4.00	Coperfice, cood, day servine. Coperfice, rationes, science \$100.1	.005 MM		
CKA N.D.	Expendiery fixed, if no regressio	- 200 act. com		
0.30	Dissection, Exist, allow rotes	5 1000		
C.N.	Espectary, East, White Name	25 mod.		
6.00	Copposition, Reserv state paragola-	ACC MADE		
C30	Lobotton, Lood, allege teles	200 seet.		
CON N.TI	Capacitic, variable, carried trio.			
DH	Capacitar, Beerl, But parameter Capacitat, Book, Mare parameter	BRD MEIL		
042	Capacitive, final, allow trios	15 (300) .		
045	Cognition, Stell, disconsensation	100 mmf		
044	Caperitor, foot, rise commis-	395 mg1		
EAR.	Capariton, Basel, ethics some	Transfer.		
C46	Charles Bolt, Book, class services	51.051		
CMF	Separation, direct, obto consens.	53 (65)		
Cat	Caperitor, Road , Non-corese to	10 p.m.		
63.1	Caper Son, fixed, attended type Caper Son, fixed, disc carries	2.50		
C10	Capacitor, thank olear received	All roles.		
1.30	Experient, fixed, care canada	2000 mass.		
0.0342	L'Appallier, films, graveral consone	220 perd		
E30	Chipacitor, fixed, allow overwise	in min.		
CHR	Superior, Bout, narroy neve	100 most		
581	Cityworke, Barel, the events	77 mile.		
CTU	Consister, fibrid, day, covered - Consister, fibrid, electrosyto	X96 MM.		
2798	CHARCEST, David, cheetrotyte	2000年1000年1	858.76.38	
2000	Capacitor, firety electrolytic	28 WM . 28 MM .	500 miles	
1000	Capecion, fised, oscalizati piper	10 mHz.	20 volts	
CTL	Countries, Barrier, paper	JUNE WALL	400 vota-	
518	Espector, Boot, 486 seconds	-00; mM.	200	
079	Copheller, Deed, willred palou	73 (66)		
City.	Capacitor, Innal, attractudes	300 MM.		
CAL	Capaciter, Basic within each Capacitar, there, disc concern	.0% wdf.	0.000	
	Calvers and commercial science Soft-Filled	300 m/s.	1.5 KV	
WIN.	Brander, Flood, paraprettion	1868 street 178 w	er 100	
311	Bestutos, Buet, mereposition	478 show 1/2 or		
302	Bookstop, Dayd, composition	477 State 1/1 vs		
904	hostitor, Burt, currentedor	GE please 1/2 wa		
NE.	Resistor, fign., composition	50 office 1/2 we		
7176	Restore, Earl, comparison Middler, Law, comparison	35% olean t.ws		
1000	Resistor, Steel, Compacition	SUCK plents Lwg		
1003	Sociator, Stud. competition	100 other 17 w		
103	Systems, Ann., reseposition	18000 places 1/9 wit		
108	Wordston, Oxed, conquestion	STEORNS 1 was		
101	Bisicler, fluid, stressond	80 Ballion 5-866	E 10-6	
BOL.	financia, adventable, peragraments	3.6 stores, thence to	1999	0.004
312	Besider, (but, sompostion betime, form, response	45 E CORP. 2 No.		
812	Sesister, Chil, rabatering	THE Storm 1/2 mg		
844	Besider, Foot, occaportion	THIS MADE: 172 mg		
2017	Darlitter, Dani, reregenting	1915 dogs: 1 ve 1.25 share 1/1 su		
841	Consisting Circle decreases have	this street 1/2 was		
8.12	Hospitals, Aurel, exceptation	950 these 1/2 we		
E1	Resistor, fixed, containation	473. okas 1/2-mg		
W2.	Designar, Hard, compression	1785 Man. 1/1 sw	01 (117)	
869	Renalis, that, composition Renalis, thank composition	DOM: 1/2 WE		
ME	Firefator, 5000, commission	Thinkers 1/2 was		
		239,0194 1/2 es	0.135	

8790604	DESCRIPTION:	PART SO.
362 361 364 365 366 367 365 360 371 873 374 470 365 360 360 361 360	Restator, Disci, Desposition. DDE since 1/2 was 10%. Servator, Disci, Desposition. 1.2 Module 1/2 was 10%. Sendator, Disci, Disciplinate. 1.2 Module 1/2 was 10%. Sendator, Disciplination. 1.2 Module 1/2 was 10%. Sendator. 1.2 Was 10%. Sendato	471.8
SREAR	Companie Statements Administry S.P.A.T. Side Settich MASID Prescy OS-OST Settich on S.P. Chile Control STS 1900 Sc. Crystal St and S. Moter Authors Coll St and S. Moter Administry S.D. Settich Setting Coll St and S. Moter Administry S.D. Settich Setting S.D. Settich Setting S.D. Settich Setting S.D. Setting	875 + 648 - 648 - 648 - 648 - 650 - 648 -
71-1 15-2	Pilot Lamp 647 Pilot Lamp 647	
EC-1	Preve Connector, Churcis Hile, planting Rosen Connector, Purchised	1036-AB 8819-000
Alto	Automas divid (Prevala) Natomas Stag Chidos Velt Harmanica	68.9 - 6611 Circle # 18151
Proof. Picari Challest Used Scale Professe Used Cover- Scott Scott State Sta State State State State State State State State State State Sta State State State State State Sta State Sta State State State S	GCE Revenued Front Fund. Complete Stationary Lane System Fund. Sile Servented Died Stelle Died Policies Transparent Finnts One Copyright Ends with Chrome Search and Statio Line Ends with Chrome Search and Statio Line Ends with Chrome Search and Statio Line Ends of American Search and Statio Line Ends of American Search Matter 6-1 No. U.A. 3" Square Matter Best Stor, Adjustable, Forest Search All share, Linear Topio Best Stor, Adjustable, Copyright On Statio State Best Stor, Ends, copyrights of Residual State State Best Stor, Ends, copyrights on Algorithm State Best Stor, Ends, copyrights	98-8P 98-80 68- 1973 104 213-4 213-4 213-45

PARLE VOLTAGE AND RESISTANCE CHARTS

PIWE-E RECEIVER VOLTAGE CHART

Plat	4.0	2	1	1	- 3	1	T	90	- 1
61906	. 6	3,74	1.8	1	250	325	- 1		
12 4168	-2	-35	6.3	10	199	26	. 6		
903	105	190	5.4	1	18.5	-9	7.9		
114 83050	-4		0 -	6.3	291	- 60			
15		1	0.	6.8	29.1	26	2.1		
190	135	+	0	0.3	15.6	- 9	13	2	1
MARK.	0	-5%	1.5	12.6	5.3	1.2	9.	3	34
979	0	10	32.0	6.0	20.3	203	MC		
70 21.74	100	32.5	12.4	360	MIT	6.8	3.4	3.4	80

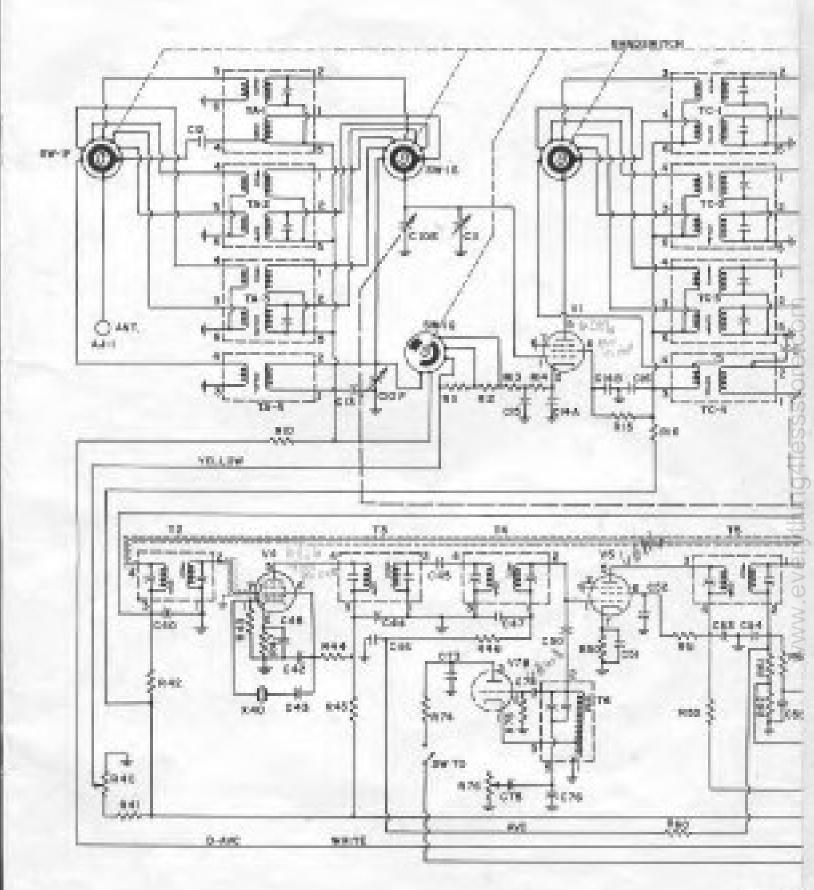
All voltage and revises no reservoir totals with respect to absent units; a frequent model for scattlengton, 20,000 obtain per volt.

All volume measurements tiles with a cooled 20000 power auguly, there are connected for 15 conspectables. A.F. gain less in minimum, R.F. quin at maximum, A.R.L. in 1977 powers, R.F.O. in A.M. position and with the national absorbed in ground.

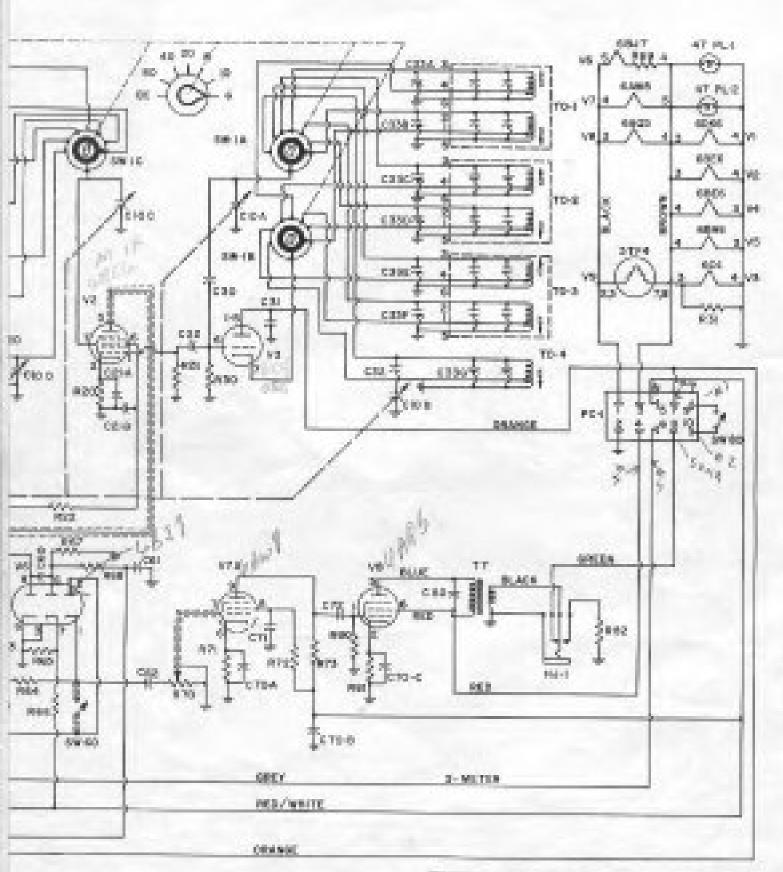
PARTY RECEIVER RESISTANCE CHART

Porf	1.	3	- 10	4	3	5.00	100	1.8	- 25
TT STORE	02.540K	3.1K	.0		400	MAC.	D		
EREE	100K	128	-4	9	2001	19696	2.3		
601	RF	BC	4	- 6	2007	5067	.4		
101 015300	188	V.	1	- 1	10.00	1488	3.3		
50 85.11	1,75%	0	1.5	1.	107	DIF	479		
195	20/80	250,6	(8)		1	1.130	3.58	100K	
NO.	0.5	SUR.	Dir	1	4	2.20	lost.	1.000	03/16
10 1,500	45/K	239	1	1	200	DOP:	900		Province:
FE TTP4	300	1	4	1907	160	1.00	4	- 1	360

All contributes are asserted taken with the person plug discorrected, filtercone consisted for in contribute. A.F. gain set at receivers. B.F. gain at maximum, A.K.L. in GFF position, M.F.O. Is A.E. position and with the asserted to ground.



PMR-8



SCHEMATIC

MULTI-PRODUCTS CO.

